## PI 543741-continued

origin: United States. origin institute: Agricultural Research Service -- USDA, University of Missouri, Curtis Hall, Rm. 210, Columbia, Missouri 65211. cultivar: Kitale II (R11)C6. pedigree: Source materials include Hickory King, (Natal) White Horsetooth, Ladysmith White, Champion White Pearl, and Iowa Silver Mine imported from South Africa. remarks: Six cycles of reciprocal recurrent selection with EC 573 (R12) Cn as tester with high yield and disease resistance (Helminthosporium turcicum and Puccinia sorghi) as selection criteria. High level of resistance appears multigenic for both diseases. Maturity is extremely long season with very high ear and plant height. Breeding Material. Seed.

## PI 543742 to 543747. Helianthus hybrid ASTERACEAE

Donated by: Miller, J.F., Agricultural Research Service -- USDA, Northern Crops Science Lab., P.O. Box 5677, Fargo, North Dakota, United States; and North Dakota Agr. Res. Sta.. remarks: Three Cytoplasmic Male Sterile and Three Restorer Sunflower Germplasm Lines. Received August 27, 1990.

- PI 543742 origin: United States. origin institute: Agricultural Research Service -- USDA, Northern Crops Science Lab., P.O. Box 5677, Fargo, North Dakota 58105. cultivar: cmsHA 89(PET2). pedigree: BC8 lines of HA 89 with cytoplasm from CMG-1. other id: GP-129. group: CSR-SUNFLOWER. remarks: Cytoplasmic male sterile line to provide cytoplasmic diversity. Morphologic and agronomic characteristics indistinguishable from HA 89 except rudimentary anthers which shed no pollen. Spring Annual. Breeding Material. Seed.
- PI 543743 Helianthus annuus L. ASTERACEAE

  origin: United States. origin institute: Agricultural
  Research Service -- USDA, Northern Crops Science Lab.,
  P.O. Box 5677, Fargo, North Dakota 58105. cultivar:
  cmsHA 89(GIG1). pedigree: BC8 lines of HA 89 with
  cytoplasm from CMG-2. other id: GP-130. group:
  CSR-SUNFLOWER. remarks: Cytoplasmic male sterile line to
  provide cytoplasmic diversity. Morphologic and agronomic
  characteristics indistinguishable from HA 89 except
  rudimentary anthers which shed no pollen. Spring Annual.
  Breeding Material. Seed.